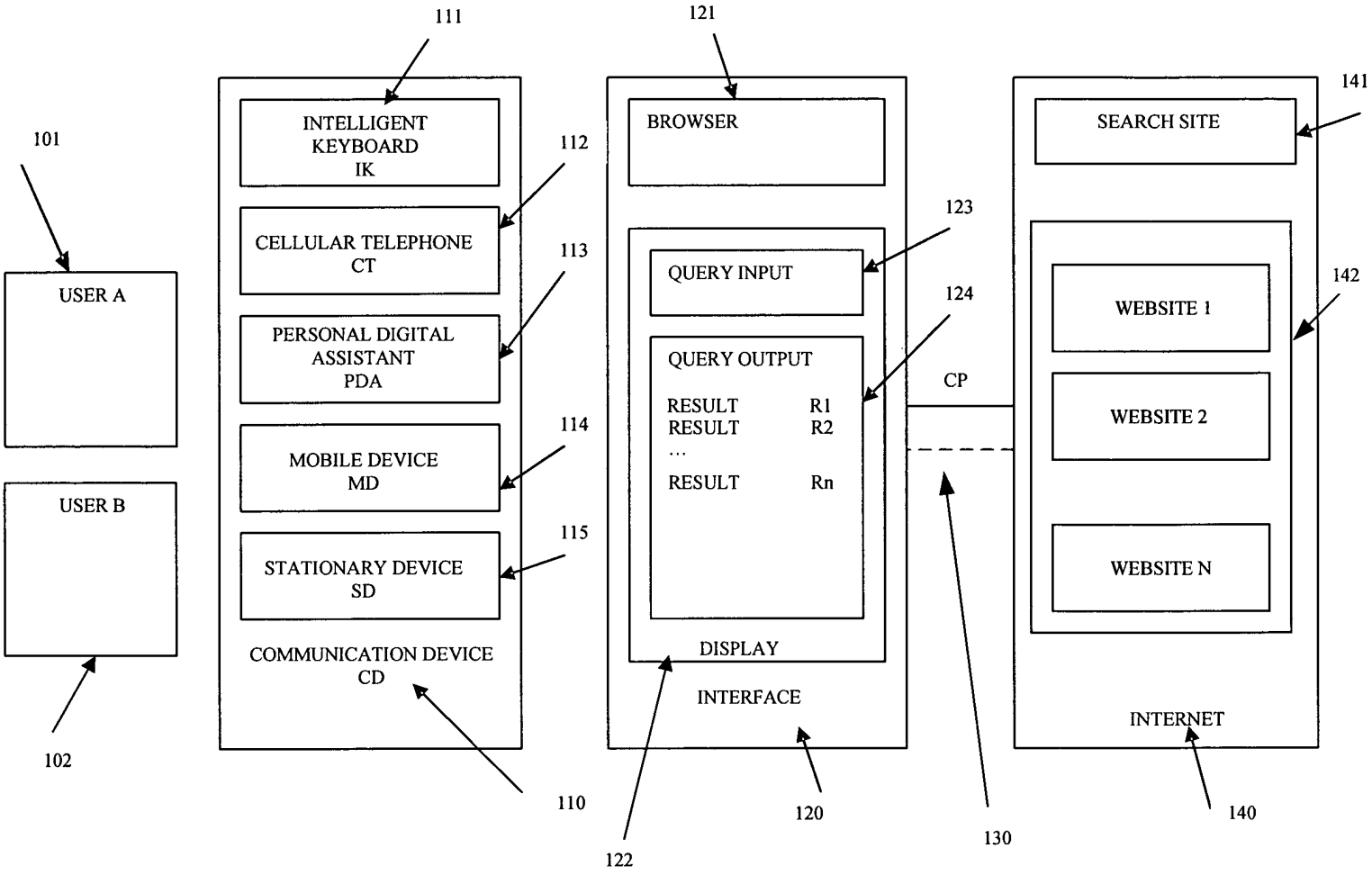
101
USER A
USER B
102
111
INTELLIGENT KEYBOARD IK
112
CELLULAR TELEPHONE CT
113
PERSONAL DIGITAL ASSISTANT PDA
114
MOBILE DEVICE MD
115
STATIONARY DEVICE SD
COMMUNICATION DEVICE CD
110
121
BROWSER
123
QUERY INPUT
124
QUERY OUTPUT
RESULT R1
RESULT R2
...
RESULT Rn
DISPLAY
INTERFACE
120
122
CP
130
141
SEARCH SITE
142
WEBSITE 1
WEBSITE 2
WEBSITE N
INTERNET
140

FIGURE: 1

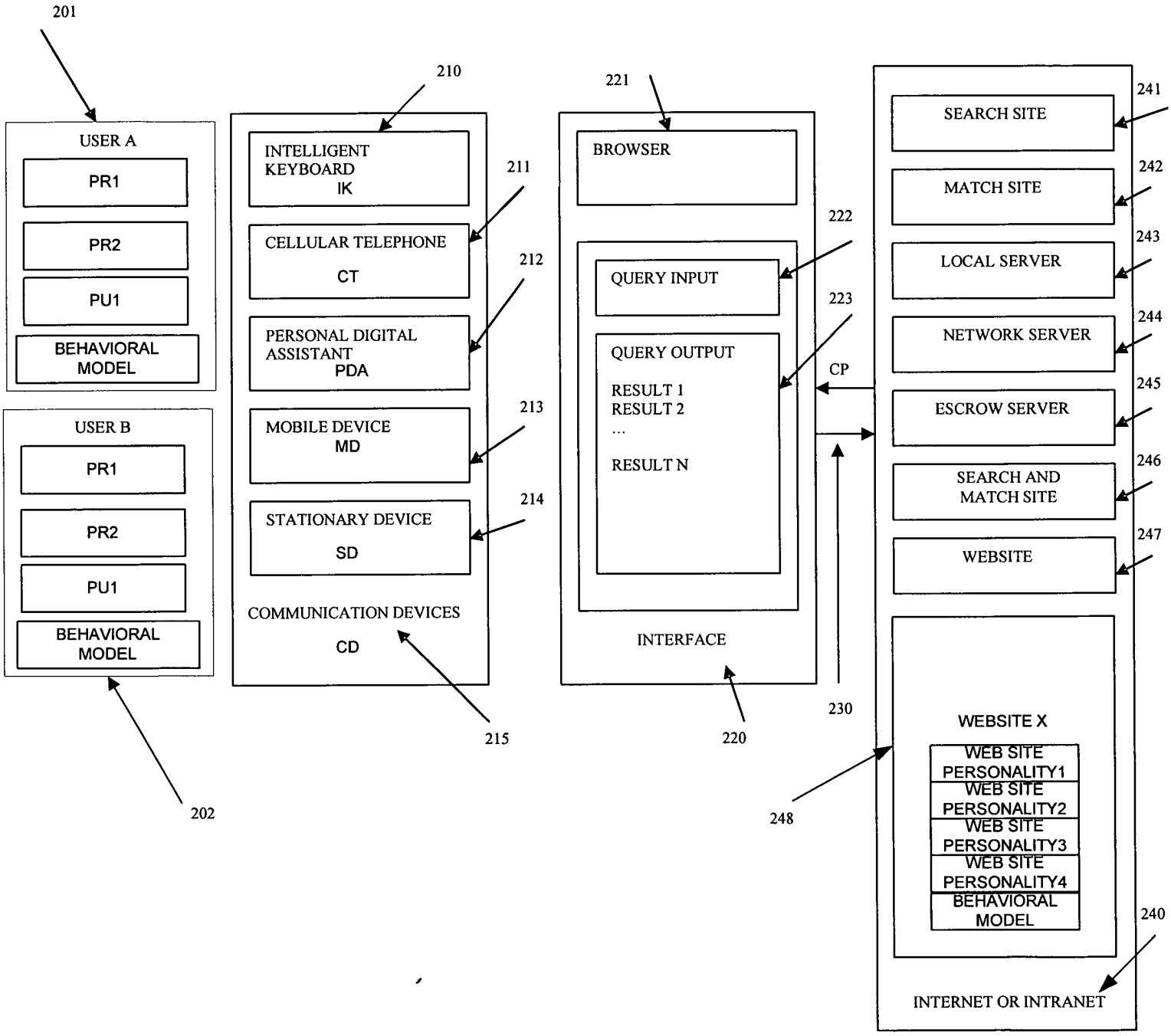
201
USER A
PR1
PR2
PU1
BEHAVIORAL MODEL
USER B
PR1
PR2
PU1
BEHAVIORAL MODEL
202
210
INTELLIGENT KEYBOARD IK
211
CELLULAR TELEPHONE CT
212
PERSONAL DIGITAL ASSISTANT PDA
213
MOBILE DEVICE MD
214
STATIONARY DEVICE SD
COMMUNICATION DEVICES CD
215
221
BROWSER
222
QUERY INPUT
223
QUERY OUTPUT
RESULT 1
RESULT 2
...
RESULT N
INTERFACE
220
CP
230
241
SEARCH SITE
242
MATCH SITE
243
LOCAL SERVER
244
NETWORK SERVER
245
ESCROW SERVER
246
SEARCH AND MATCH SITE
247
WEBSITE
WEBSITE X
WEB SITE PERSONALITY1
WEB SITE PERSONALITY2
WEB SITE PERSONALITY3
WEB SITE PERSONALITY4
BEHAVIORAL MODEL
248
240
INTERNET OR INTRANET

FIGURE 2

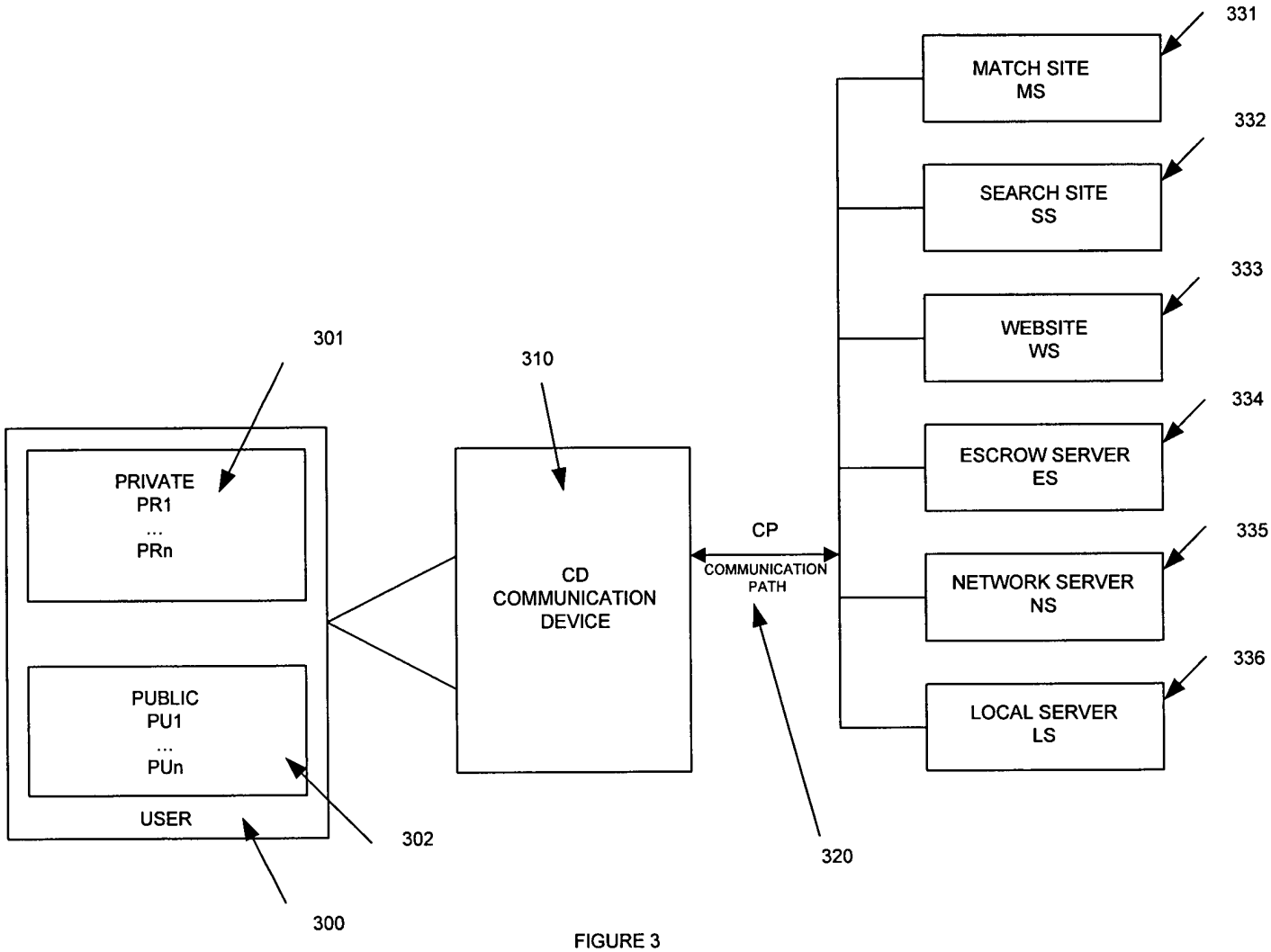
331
MATCH SITE
MS
332
SEARCH SITE
SS
333
WEBSITE
WS
334
ESCROW SERVER
ES
335
NETWORK SERVER
NS
336
LOCAL SERVER
LS
301
310
PRIVATE
PR1
...
PRn
PUBLIC
PU1
...
PUn
USER
CD
COMMUNICATION
DEVICE
CP
COMMUNICATION
PATH
302
320
300

FIGURE 3

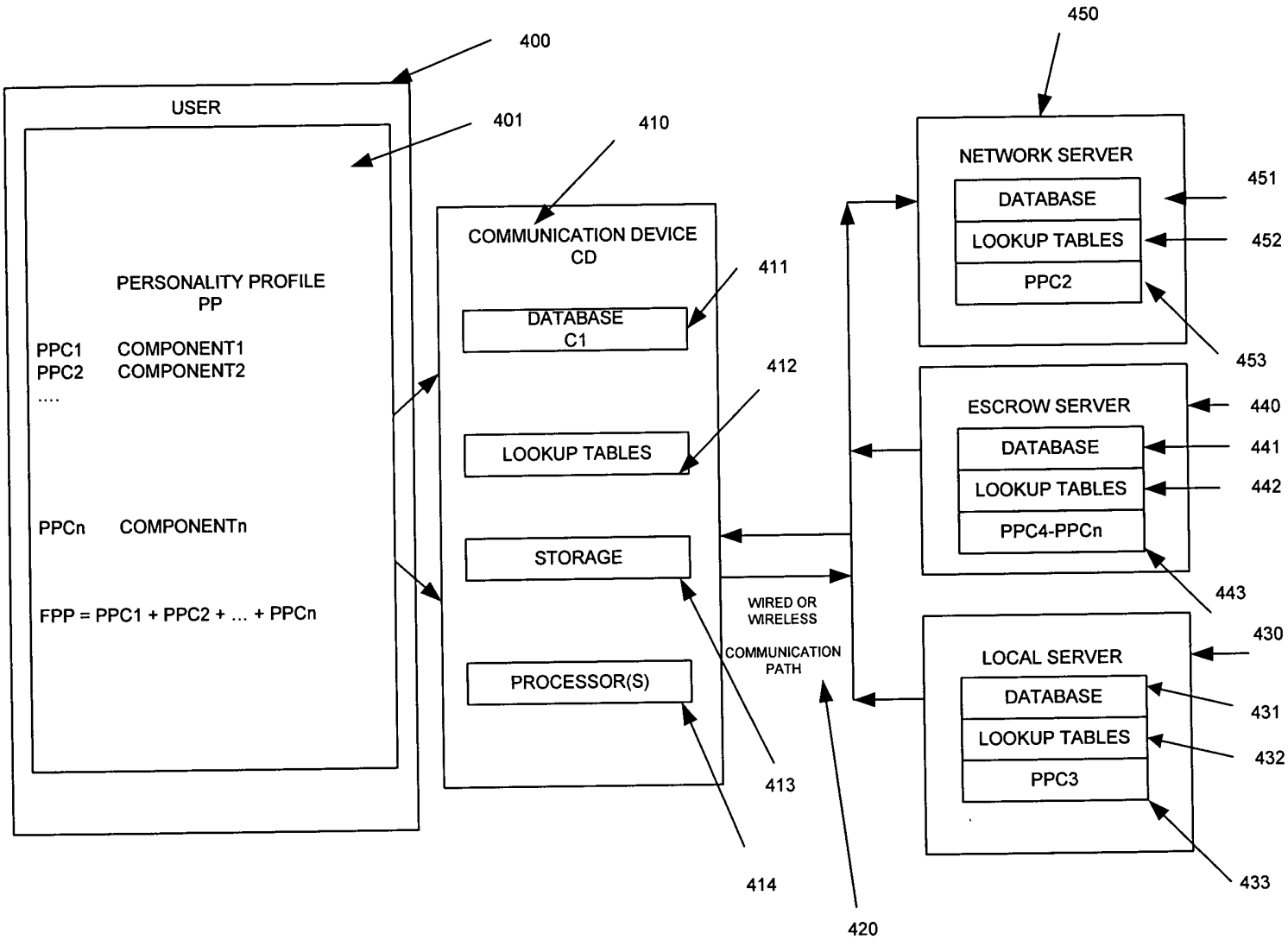
400
USER
401
PERSONALITY PROFILE
PP
PPC1 COMPONENT1
PPC2 COMPONENT2
....
PPCn COMPONENTn
FPP = PPC1 + PPC2 + ... + PPCn
410
COMMUNICATION DEVICE
CD
411
DATABASE
C1
412
LOOKUP TABLES
STORAGE
PROCESSOR(S)
413
414
WIRED OR
WIRELESS
COMMUNICATION
PATH
420
450
NETWORK SERVER
451
DATABASE
LOOKUP TABLES
452
PPC2
453
ESCROW SERVER
440
DATABASE
441
LOOKUP TABLES
442
PPC4-PPCn
443
430
LOCAL SERVER
DATABASE
431
LOOKUP TABLES
432
PPC3
433

FIGURE 4

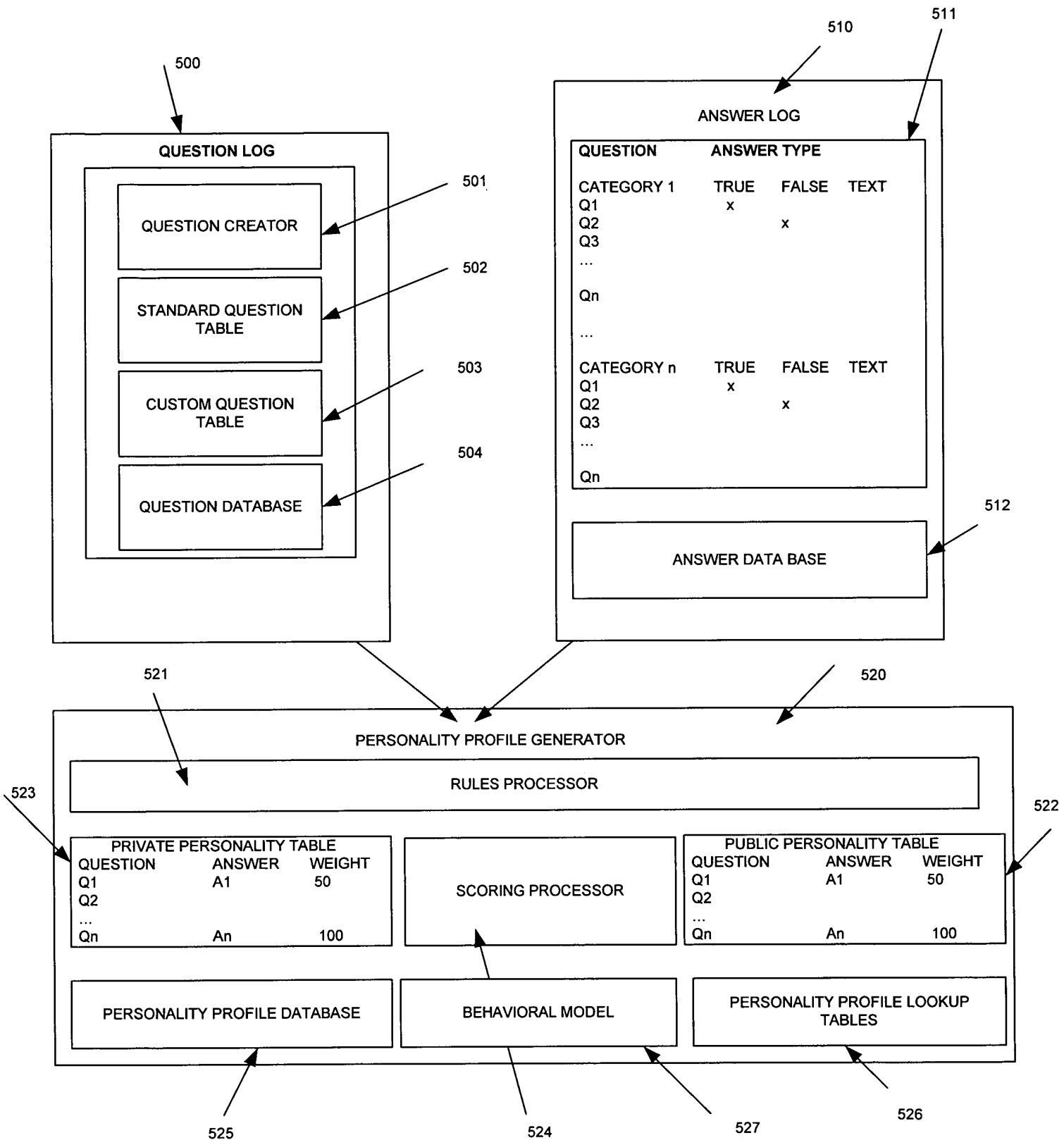
500
QUESTION LOG
QUESTION CREATOR
501
STANDARD QUESTION TABLE
502
CUSTOM QUESTION TABLE
503
QUESTION DATABASE
504
510
511
ANSWER LOG
QUESTION ANSWER TYPE
CATEGORY 1 TRUE FALSE TEXT
Q1 x
Q2 x
Q3
...
Qn
...
CATEGORY n TRUE FALSE TEXT
Q1 x
Q2 x
Q3
...
Qn
ANSWER DATA BASE
512
521
520
PERSONALITY PROFILE GENERATOR
RULES PROCESSOR
523
522
PRIVATE PERSONALITY TABLE
QUESTION ANSWER WEIGHT
Q1 A1 50
Q2
...
Qn An 100
SCORING PROCESSOR
PUBLIC PERSONALITY TABLE
QUESTION ANSWER WEIGHT
Q1 A1 50
Q2
...
Qn An 100
PERSONALITY PROFILE DATABASE
BEHAVIORAL MODEL
PERSONALITY PROFILE LOOKUP TABLES
525
524
527
526

FIGURE 5

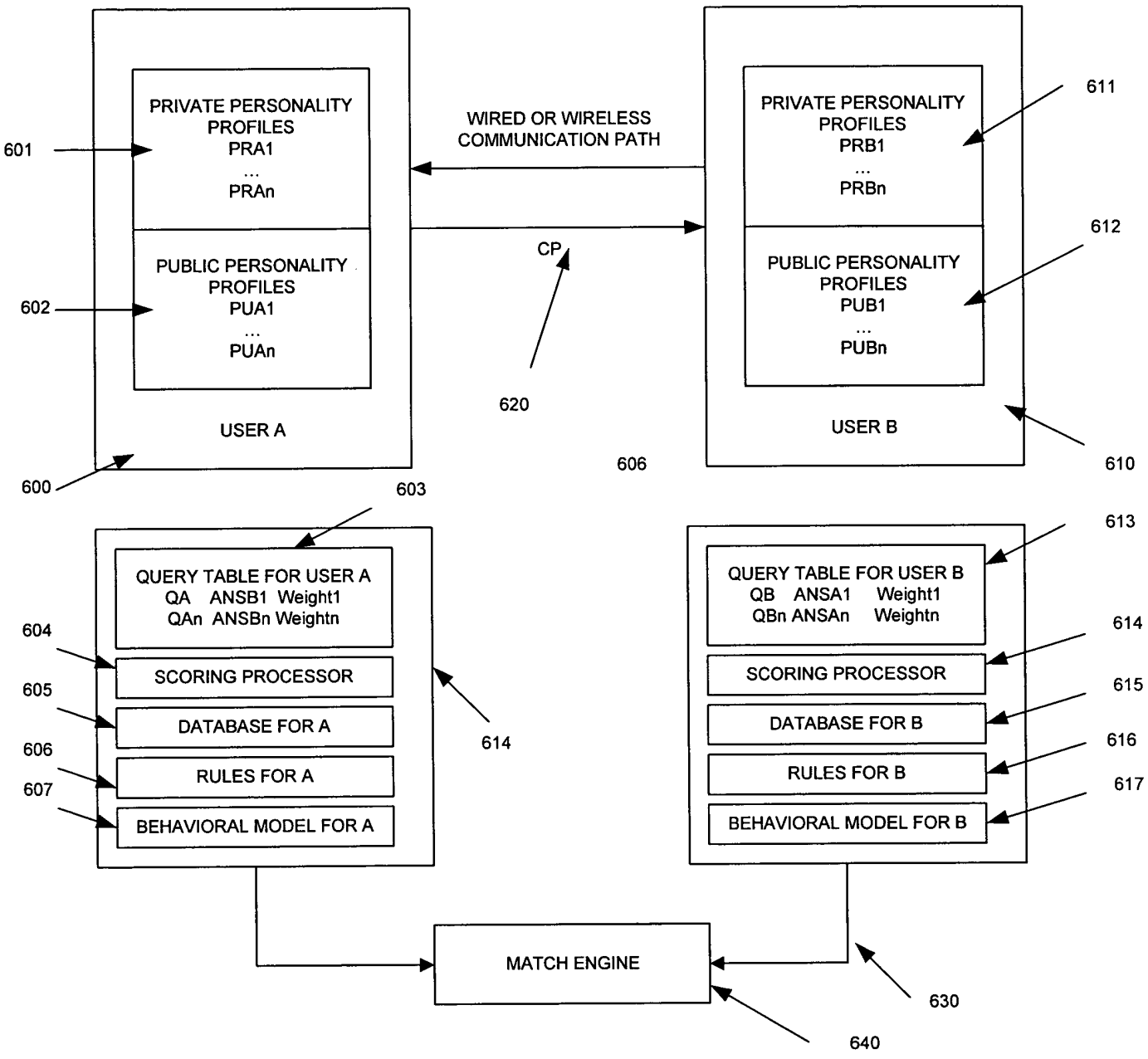
PRIVATE PERSONALITY PROFILES
PRA1
...
PRAn
PUBLIC PERSONALITY PROFILES
PUA1
...
PUAn
USER A
WIRED OR WIRELESS COMMUNICATION PATH
CP
620
PRIVATE PERSONALITY PROFILES
PRB1
...
PRBn
PUBLIC PERSONALITY PROFILES
PUB1
...
PUBn
USER B
601
602
600
603
606
610
611
612
QUERY TABLE FOR USER A
QA ANSB1 Weight1
QAn ANSBn Weightn
SCORING PROCESSOR
DATABASE FOR A
RULES FOR A
BEHAVIORAL MODEL FOR A
604
605
606
607
614
QUERY TABLE FOR USER B
QB ANSA1 Weight1
QBn ANSAn Weightn
SCORING PROCESSOR
DATABASE FOR B
RULES FOR B
BEHAVIORAL MODEL FOR B
613
614
615
616
617
MATCH ENGINE
630
640

FIGURE 6

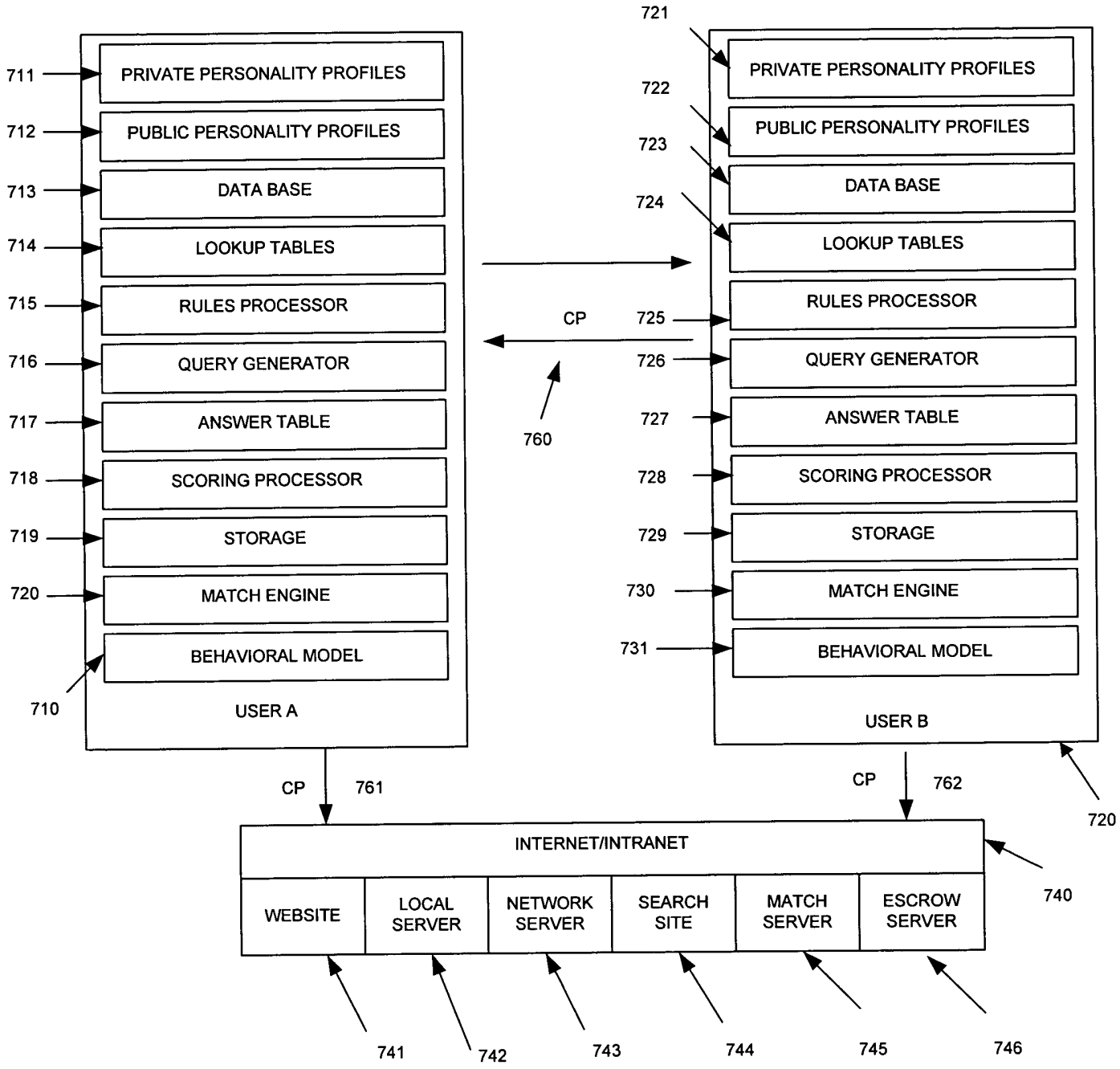
711
PRIVATE PERSONALITY PROFILES
712
PUBLIC PERSONALITY PROFILES
713
DATA BASE
714
LOOKUP TABLES
715
RULES PROCESSOR
716
QUERY GENERATOR
717
ANSWER TABLE
718
SCORING PROCESSOR
719
STORAGE
720
MATCH ENGINE
BEHAVIORAL MODEL
710
USER A
CP
761
760
CP
725
721
PRIVATE PERSONALITY PROFILES
722
PUBLIC PERSONALITY PROFILES
723
DATA BASE
724
LOOKUP TABLES
RULES PROCESSOR
726
QUERY GENERATOR
727
ANSWER TABLE
728
SCORING PROCESSOR
729
STORAGE
730
MATCH ENGINE
731
BEHAVIORAL MODEL
USER B
CP
762
720
INTERNET/INTRANET
740
WEBSITE
LOCAL SERVER
NETWORK SERVER
SEARCH SITE
MATCH SERVER
ESCROW SERVER
741
742
743
744
745
746

FIGURE 7

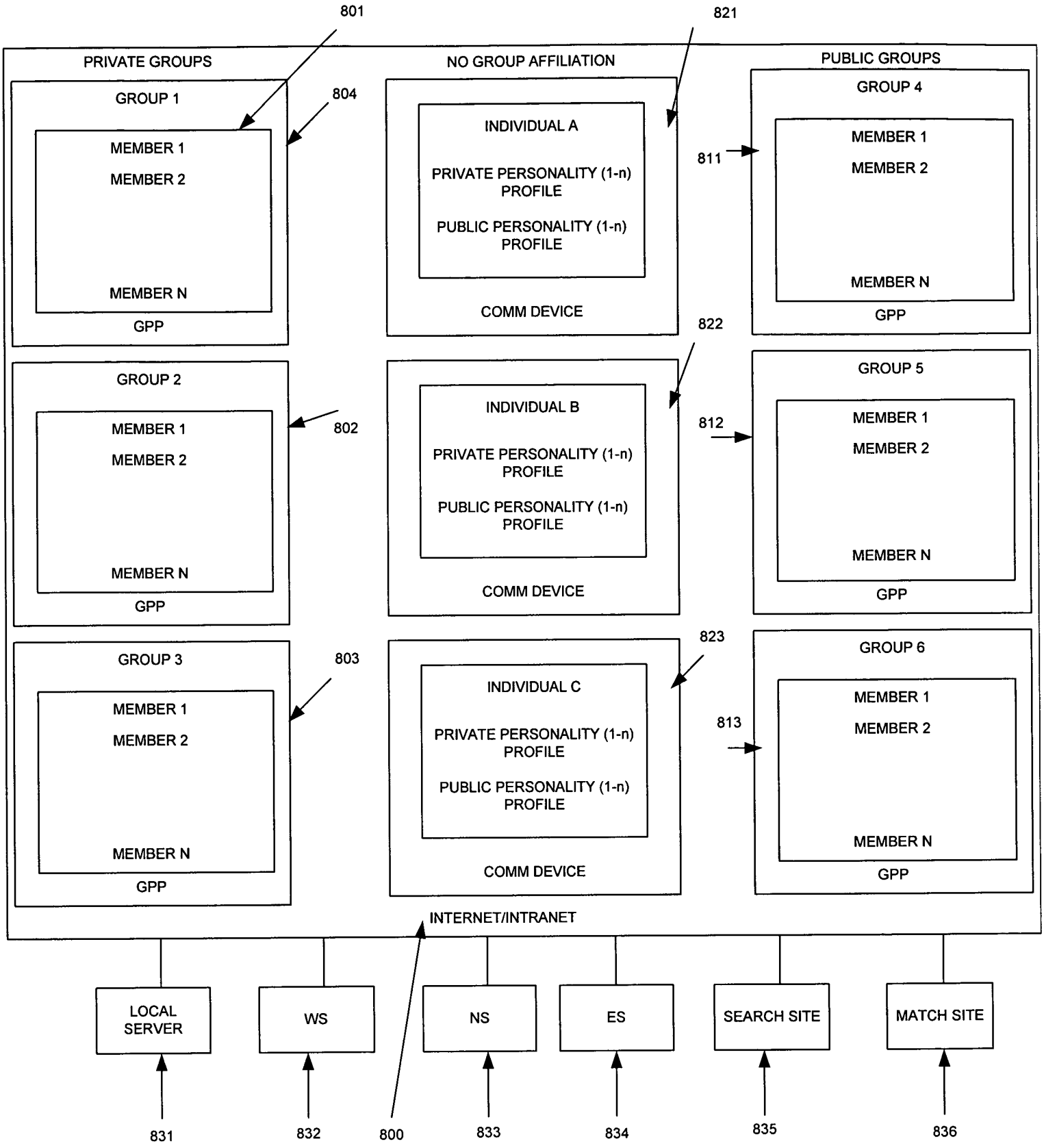
801
821
PRIVATE GROUPS
NO GROUP AFFILIATION
PUBLIC GROUPS
GROUP 1
804
MEMBER 1
MEMBER 2
MEMBER N
GPP
INDIVIDUAL A
PRIVATE PERSONALITY (1-n) PROFILE
PUBLIC PERSONALITY (1-n) PROFILE
COMM DEVICE
GROUP 4
811
MEMBER 1
MEMBER 2
MEMBER N
GPP
822
GROUP 2
802
MEMBER 1
MEMBER 2
MEMBER N
GPP
INDIVIDUAL B
PRIVATE PERSONALITY (1-n) PROFILE
PUBLIC PERSONALITY (1-n) PROFILE
COMM DEVICE
GROUP 5
812
MEMBER 1
MEMBER 2
MEMBER N
GPP
823
GROUP 3
803
MEMBER 1
MEMBER 2
MEMBER N
GPP
INDIVIDUAL C
PRIVATE PERSONALITY (1-n) PROFILE
PUBLIC PERSONALITY (1-n) PROFILE
COMM DEVICE
GROUP 6
813
MEMBER 1
MEMBER 2
MEMBER N
GPP
INTERNET/INTRANET
LOCAL SERVER
WS
NS
ES
SEARCH SITE
MATCH SITE
831
832
800
833
834
835
836

FIGURE 8

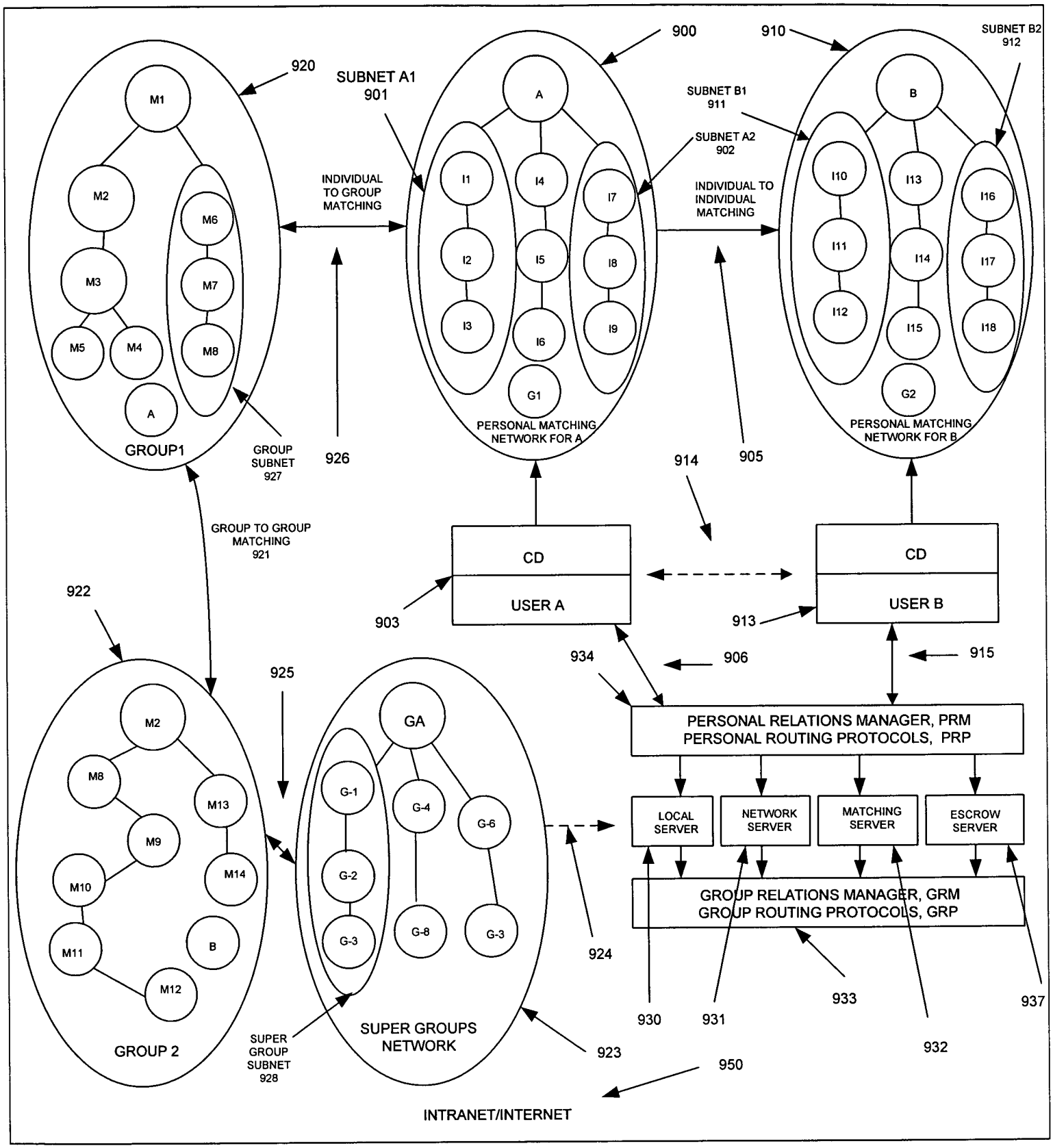
900
910
SUBNET B2
912
920
SUBNET A1
901
SUBNET B1
911
SUBNET A2
902
INDIVIDUAL
TO GROUP
MATCHING
INDIVIDUAL TO
INDIVIDUAL
MATCHING
GROUP1
GROUP
SUBNET
927
926
PERSONAL MATCHING
NETWORK FOR A
PERSONAL MATCHING
NETWORK FOR B
905
914
GROUP TO GROUP
MATCHING
921
CD
USER A
CD
USER B
903
913
922
925
934
906
915
PERSONAL RELATIONS MANAGER, PRM
PERSONAL ROUTING PROTOCOLS, PRP
LOCAL
SERVER
NETWORK
SERVER
MATCHING
SERVER
ESCROW
SERVER
GROUP RELATIONS MANAGER, GRM
GROUP ROUTING PROTOCOLS, GRP
924
933
937
930
931
932
GROUP 2
SUPER
GROUP
SUBNET
928
SUPER GROUPS
NETWORK
923
950
INTRANET/INTERNET

FIGURE 9

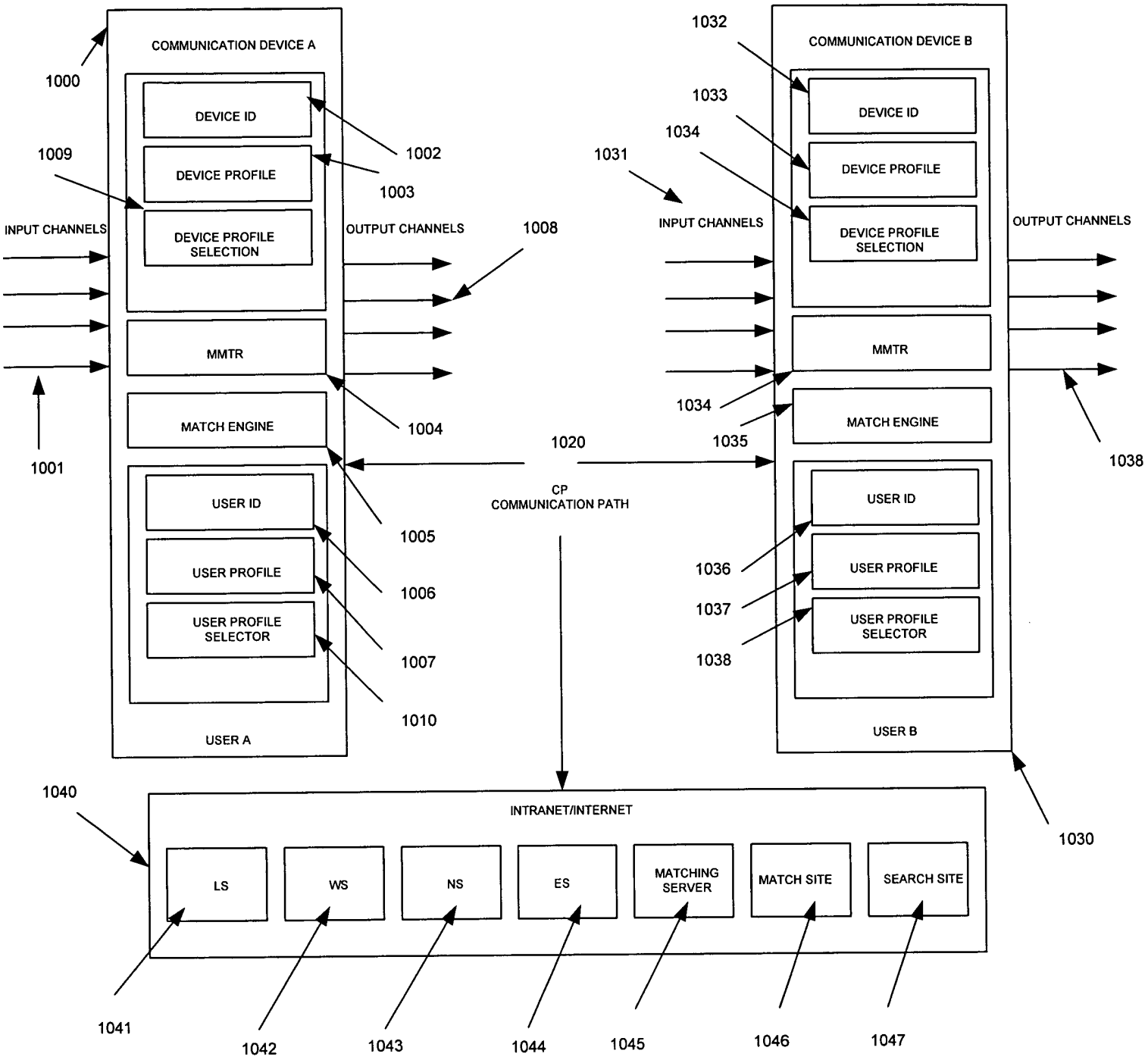
COMMUNICATION DEVICE A
1000
DEVICE ID
DEVICE PROFILE
DEVICE PROFILE SELECTION
1009
1002
1003
INPUT CHANNELS
OUTPUT CHANNELS
1008
MMTR
MATCH ENGINE
1004
1001
1020
CP COMMUNICATION PATH
USER ID
USER PROFILE
USER PROFILE SELECTOR
1005
1006
1007
1010
USER A
1032
COMMUNICATION DEVICE B
1033
1034
1031
DEVICE ID
DEVICE PROFILE
DEVICE PROFILE SELECTION
INPUT CHANNELS
OUTPUT CHANNELS
MMTR
1034
MATCH ENGINE
1035
1038
USER ID
USER PROFILE
USER PROFILE SELECTOR
1036
1037
1038
USER B
1030
1040
INTRANET/INTERNET
LS
WS
NS
ES
MATCHING SERVER
MATCH SITE
SEARCH SITE
1041
1042
1043
1044
1045
1046
1047

FIGURE 10

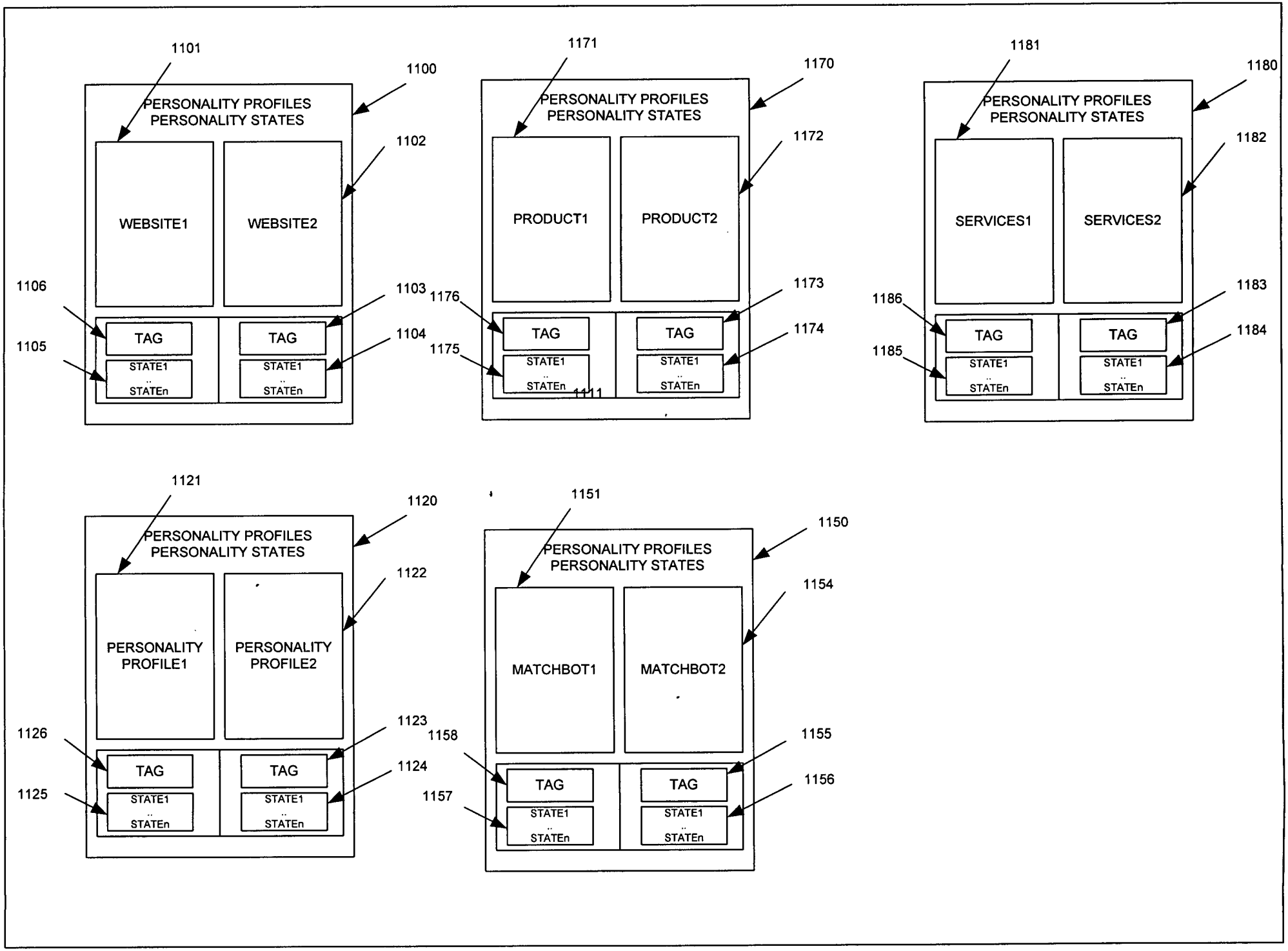
1101
1100
PERSONALITY PROFILES
PERSONALITY STATES
WEBSITE1
WEBSITE2
1102
1106
1103
TAG
TAG
1105
1104
STATE1
..
STATEn
STATE1
..
STATEn
1171
1170
PERSONALITY PROFILES
PERSONALITY STATES
PRODUCT1
PRODUCT2
1172
1176
1173
TAG
TAG
1175
1174
STATE1
..
STATEn
STATE1
..
STATEn
1111
1181
1180
PERSONALITY PROFILES
PERSONALITY STATES
SERVICES1
SERVICES2
1182
1186
1183
TAG
TAG
1185
1184
STATE1
..
STATEn
STATE1
..
STATEn
1121
1120
PERSONALITY PROFILES
PERSONALITY STATES
PERSONALITY PROFILE1
PERSONALITY PROFILE2
1122
1126
1123
TAG
TAG
1125
1124
STATE1
..
STATEn
STATE1
..
STATEn
1151
1150
PERSONALITY PROFILES
PERSONALITY STATES
MATCHBOT1
MATCHBOT2
1154
1158
1155
TAG
TAG
1157
1156
STATE1
..
STATEn
STATE1
..
STATEn

FIGURE 11

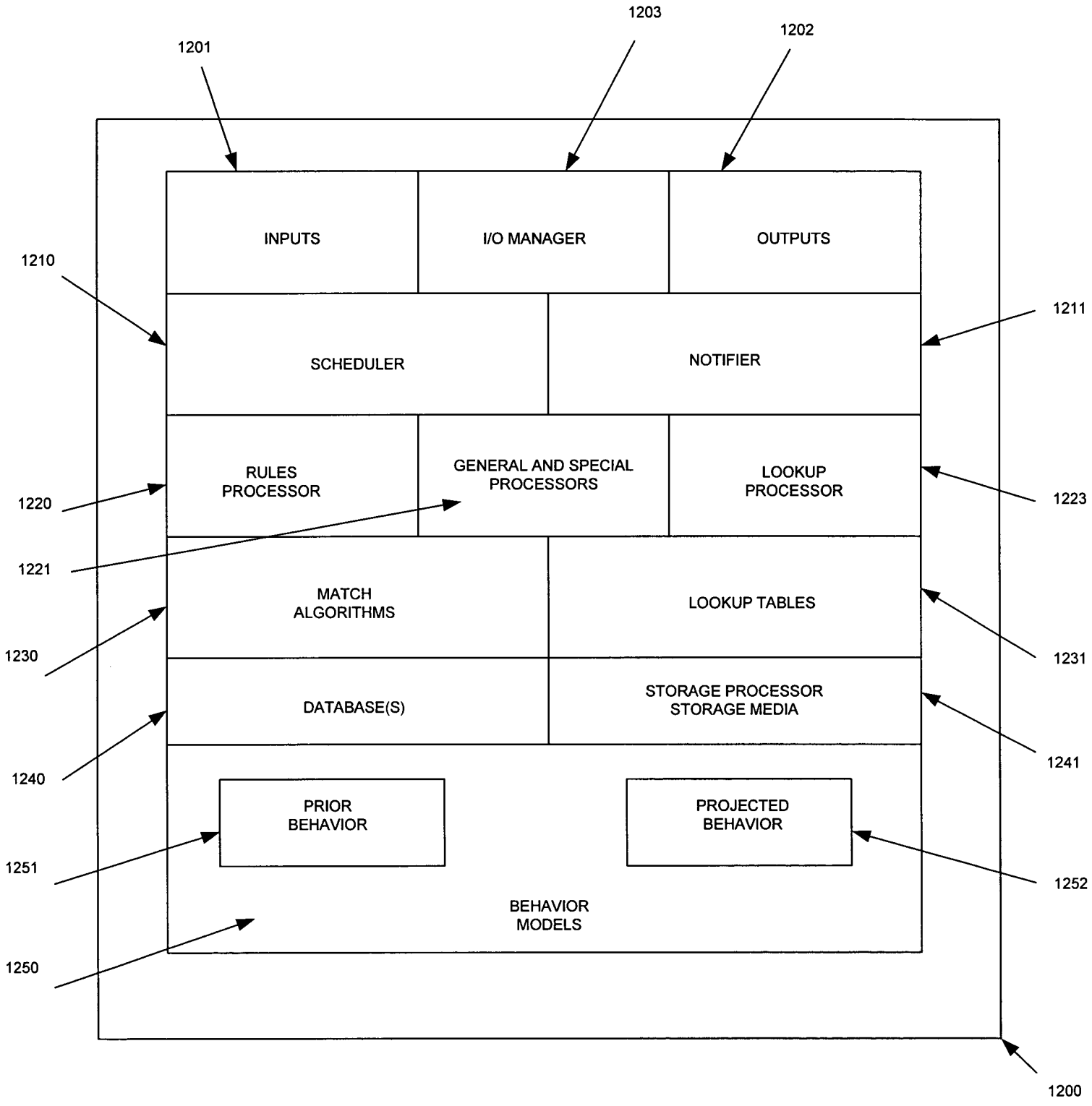
1203
1202
1201
INPUTS
I/O MANAGER
OUTPUTS
1210
1211
SCHEDULER
NOTIFIER
RULES PROCESSOR
GENERAL AND SPECIAL PROCESSORS
LOOKUP PROCESSOR
1220
1223
1221
MATCH ALGORITHMS
LOOKUP TABLES
1230
1231
DATABASE(S)
STORAGE PROCESSOR STORAGE MEDIA
1241
1240
PRIOR BEHAVIOR
PROJECTED BEHAVIOR
1251
1252
BEHAVIOR MODELS
1250
1200

FIGURE 12

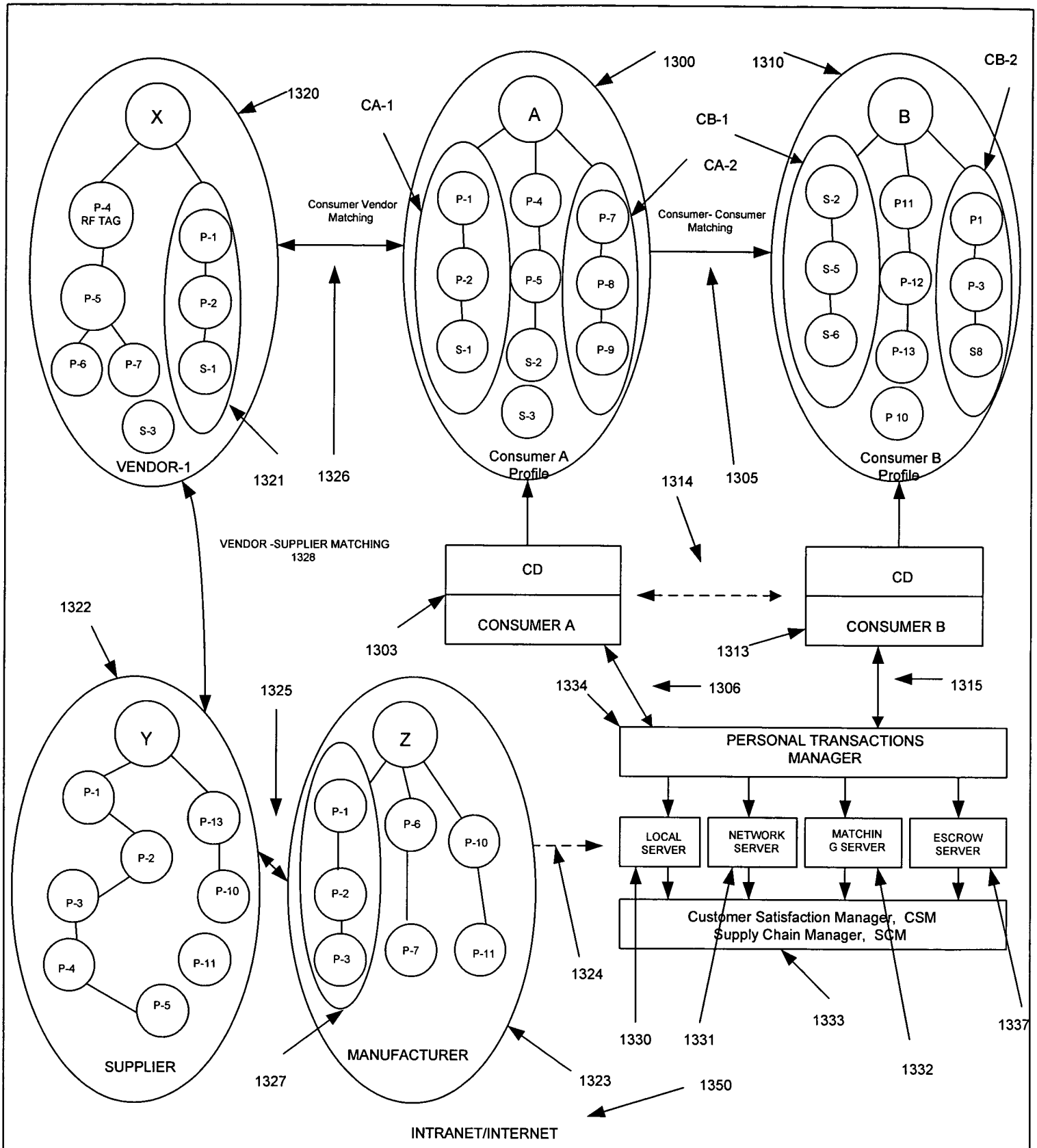
1300
1310
CB-2
1320
CA-1
CB-1
CA-2
X
A
B
P-4
RF TAG
P-1
P-2
P-5
P-6
P-7
S-1
S-3
P-1
P-2
P-4
P-5
P-7
P-8
S-1
S-2
P-9
S-3
S-2
S-5
S-6
P11
P-12
P-13
P 10
P1
P-3
S8
Consumer Vendor Matching
Consumer- Consumer Matching
VENDOR-1
1321
1326
Consumer A Profile
Consumer B Profile
1314
1305
VENDOR -SUPPLIER MATCHING
1328
CD
CONSUMER A
CD
CONSUMER B
1303
1313
1322
1325
1334
1306
1315
PERSONAL TRANSACTIONS MANAGER
Y
Z
P-1
P-13
P-2
P-3
P-10
P-4
P-11
P-5
P-1
P-6
P-10
P-2
P-3
P-7
P-11
LOCAL SERVER
NETWORK SERVER
MATCHIN G SERVER
ESCROW SERVER
Customer Satisfaction Manager, CSM
Supply Chain Manager, SCM
1324
1330
1331
1333
1337
1332
SUPPLIER
MANUFACTURER
1327
1323
1350
INTRANET/INTERNET

FIGURE 13

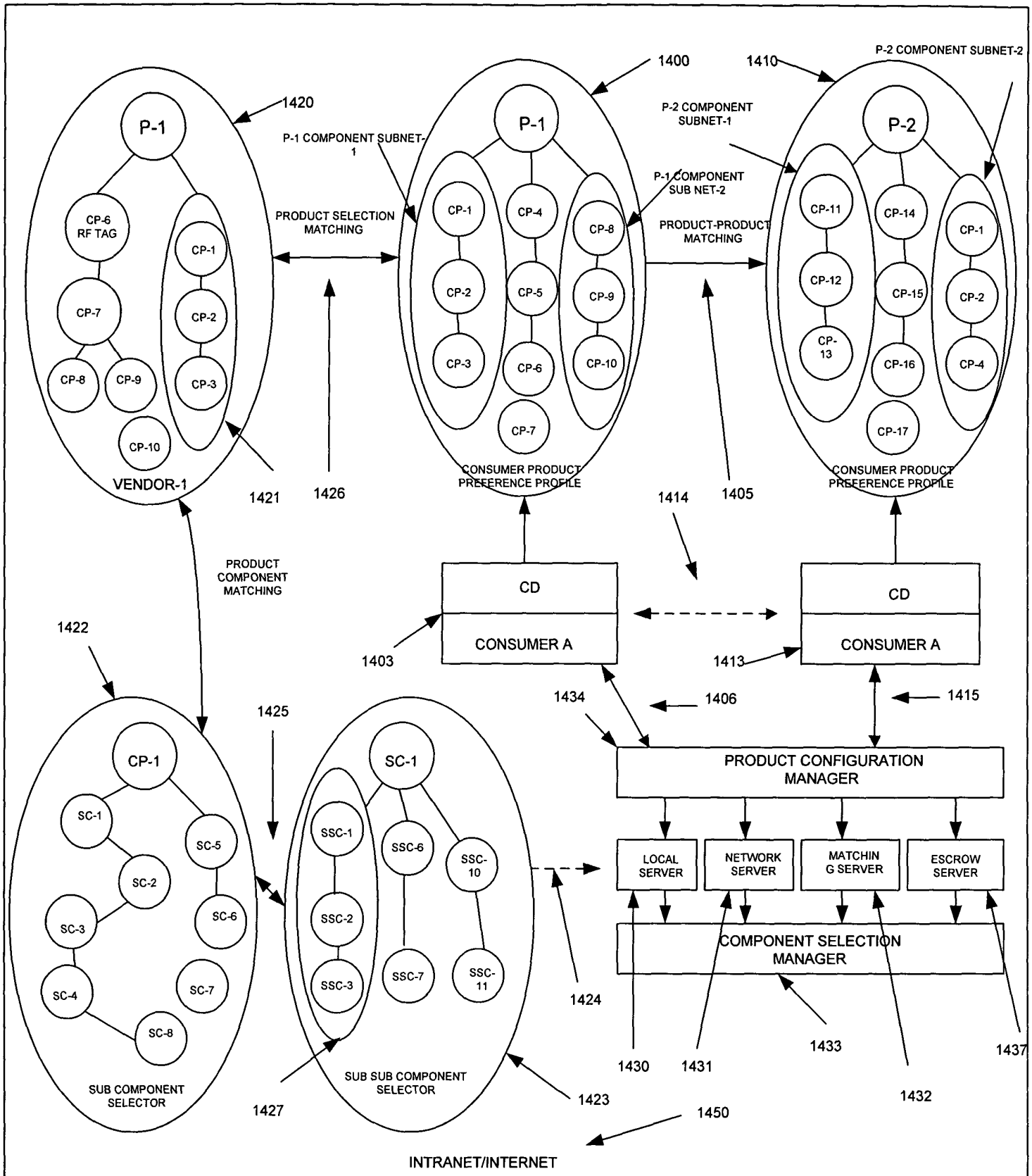
1400
1410
P-2 COMPONENT SUBNET-2
1420
P-1
P-1 COMPONENT SUBNET-1
P-2 COMPONENT SUBNET-1
P-1 COMPONENT SUB NET-2
PRODUCT SELECTION MATCHING
PRODUCT-PRODUCT MATCHING
P-2
CP-6 RF TAG
CP-7
CP-8
CP-9
CP-10
CP-1
CP-2
CP-3
CP-4
CP-5
CP-6
CP-11
CP-12
CP-13
CP-14
CP-15
CP-16
CP-17
VENDOR-1
CONSUMER PRODUCT PREFERENCE PROFILE
1421
1426
1405
1414
PRODUCT COMPONENT MATCHING
CD
CONSUMER A
1403
1413
1422
1425
1434
1406
1415
PRODUCT CONFIGURATION MANAGER
SC-1
SC-2
SC-3
SC-4
SC-5
SC-6
SC-7
SC-8
SSC-1
SSC-2
SSC-3
SSC-6
SSC-7
SSC-10
SSC-11
LOCAL SERVER
NETWORK SERVER
MATCHIN G SERVER
ESCROW SERVER
COMPONENT SELECTION MANAGER
SUB COMPONENT SELECTOR
SUB SUB COMPONENT SELECTOR
1424
1427
1423
1430
1431
1433
1432
1437
1450
INTRANET/INTERNET

FIGURE 14